

2/13 2/12/93 This is a #14  
**CONTROLLED DOCUMENT**

EG&G — ROCKY FLATS PLANT  
 ENVIRONMENTAL MANAGEMENT DEPARTMENT

~~THIS IS A REP STAMP~~  
 ROCKY FLATS PLANT  
 EMD OPERATING  
 PROCEDURES MANUAL

Manual No.: 5-21000-OPS-GT  
 Procedure No.: Table of Contents, Rev 36  
 Page: 1 of 3  
 Effective Date: 02/11/93  
 Organization: Environmental Management

**THIS IS ONE VOLUME OF A SIX VOLUME SET  
 WHICH INCLUDES:**

VOLUME I: FIELD OPERATIONS (FO)  
 VOLUME II: GROUNDWATER (GW)  
 VOLUME III: GEOTECHNICAL (GT)  
 VOLUME IV: SURFACE WATER (SW)  
 VOLUME V: ECOLOGY (EE)  
 VOLUME VI: AIR (AP)

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GT.01	Logging Alluvial and Bedrock Material	2	05/12/92
DCN 92.01	Specialized Logging Form	2	11/13/92
DCN 93.01	Logging	2	01/15/93
DCN 93.02	Logging Deliverables Standard Practices	2	01/25/93
GT.02	Drilling and Sampling Using Hollow Stem Auger Techniques	2	05/12/92
DCN 92.01	Superseded by DCN 92.03	2	07/27/92
DCN 92.02	Superseded by DCN 92.03	2	07/27/92
DCN 92.03	Addition of the Drum Characterization	2	07/27/92
DCN 92.04	Prevention of Down Hole Contamination	2	08/26/92
DCN 92.05	Field Modification	2	12/04/92
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GT.03	Isolating Bedrock from Alluvium with Grouted Surface Casing	2	05/12/92
DCN 92.03	Expired	2	09/03/92
*DCN 93.01	Data Quality Objectives for PLF Investigations	2	02/10/93

ADMIN RECORD

DOCUMENT CLASSIFICATION REVIEW WAIVER  
 PER R.B. HOFFMAN, CLASSIFICATION OFFICE  
 JUNE 11, 1991

A-SW-001128

**ROCKY FLATS PLANT  
EMD OPERATING  
PROCEDURES MANUAL**

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GT.04	Rotary Drilling and Rock Coring	2	05/12/92
GT.05	Plugging and Abandonment of Boreholes	2	05/12/92
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DCN 93.01	5.2 Revision	2	02/04/93
GT.06	Monitoring Wells and Piezometer Installation	2	05/12/92
DCN 92.05	Schematic Diagram Land Fill Methane Wells	2	06/04/92
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DCN 92.07	Provide Consistency	2	12/17/92
DCN 93.01	Borehole Advancement	2	01/04/93
DCN 93.02	Well Point Installation	2	01/28/93
DCN 93.03	Piezometer Logging Modification	2	02/04/93
*DCN 93.04	Wells - 5.3.2.2 Revised	2	02/10/93
*DCN 93.05	Temperatures - 5.3.2.3 Revised	2	02/10/93
GT.07	Logging and Sampling of Test Pits and Trenches	2	05/12/92
GT.08	Surface Soil Sampling	2	05/12/92
DCN 92.01	Clarification of Soil Sampling	2	09/03/92
DCN 92.02	Consistency Change	2	10/12/92
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DCN 93.03	CDH Compliance	2	01/25/93
GT.09	Soil Gas Sampling and Field Analysis	2	05/12/92
GT.10	Borehole Clearing	2	05/12/92
GT.11	Plugging and Abandonment of Wells	2	05/12/92
GT.15	Geophysical Borehole Logging	2	05/12/92
GT.17	Land Surveying	2	05/12/92

**ROCKY FLATS PLANT  
EMD OPERATING  
PROCEDURES MANUAL**

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<b><u>Procedure No.</u></b>	<b><u>Title</u></b>	<b><u>Rev. No.</u></b>	<b><u>Effective Date</u></b>
GT.18	Surface Geophysical Surveys	2	05/12/92
DCN 92.01	Surface Magnetic Surveys Procedure	2	09/30/92
DCN 92.02	Modification to Stacking Requirements	2	10/15/92
DCN 92.03	Modification to Method of Taking Readings	2	10/15/92
DCN 93.01	5.4 Field Procedure Revisions	2	01/25/93
GT.19	Field Gas Chromatographs	2	05/12/92
GT.20	Procedures for Soil Interstitial Water Sampling and Sampler Installation	2	05/12/92
GT.21	Cone Penetrometer Testing	1	05/12/92
DCN 93.01	CPT Rods	1	01/15/93
GT.24	Approval Process for Construction Activities on or Near Individual Hazardous Substance Sites (IHSSs)	0	05/12/92

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**CONTROLLED DOCUMENT**EG&G -- ROCKY FLATS PLANT  
ENVIRONMENTAL MANAGEMENT DEPARTMENT**ENVIRONMENTAL MANAGEMENT  
DOCUMENT CHANGE NOTICE (DCN)**

This is a RED Stamp

Procedure Number 5-21000-OPS-GT.6 Rev 2

Page 1 of 1

Title Monitoring Wells and Piezometer Installation	Date <del>1-14-93</del> 2/10/93 10/14/93	DCN Number 5-21000-OPS-93.05-42
Expires <u>2/10/94</u>	Procedure Revision Required <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Scope Limitation <u>none</u>		

Item Number	Page	Step or Paragraph	Changes (Use DCN CONTINUATION SHEET for Additional Space)
1	13 of 18	5.3.2.3	Insert at the third line after "between 24 and 72 hours after initial grout placement": "except when temperatures are below freezing."
2	16 of 18	5.3.2.3	Add a final paragraph to this section as follows: "When daytime temperatures are consistently below freezing, it is not feasible to excavate the upper most 1 1/2 to 3 feet of grout in order to install the surface well features since the grout is often frozen and difficult to remove. In addition, poured concrete may freeze before it cures causing cracking and necessitating replacement to ensure a surface seal. In these instances, the PVC well riser will be securely capped until warmer weather allows the setting of surface features. Wells installed during freezing weather will not be permitted to stand without surface features for more than two months."

Justification (Reason for Change - Provide Numbers To Reference Corresponding Items Above)

#1 &amp; #2

Installation of surface features during freezing weather is not feasible

DOCUMENT CLASSIFICATION REVIEW WAIVER  
PER R.B. HOFFMAN, CLASSIFICATION OFFICE  
JUNE 11, 1991

Concurrence	Organization	Req	Date	Concurrence	Organization	Req	Date
<i>[Signature]</i>	QAPM	X	2/3/93	<i>[Signature]</i>	User	X	1/14/93
<i>[Signature]</i>	EQS		1-19-93	<i>[Signature]</i>	User		1-15-93
<i>[Signature]</i>	EDM	X	1-29-93	<i>[Signature]</i>	EQS		2/3/93
Approval of Responsible Manager <i>[Signature]</i>		Date 1-14-93		Is Posting Req'd? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		If Yes, By What Date? upon receipt	
						Date Posted	

DCN Form 60

FORM 1002